

## Solutions to Polynomial Input 2

**Quiz:** Which of the following are true about the differential equation  $3x^{(4)} + 2x^{(3)} + x'' = 2t^2 + 1$ ?

**Choices:**

- a) It has no polynomial solutions.
- b) It has exactly one polynomial solution.
- c) It has many polynomial solutions.
- d) All its solutions are polynomials.
- e) We can't say from the information given.

Pick what you think is the correct choice and then look at the answer.

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